



enTrust
microgrid

You can trust

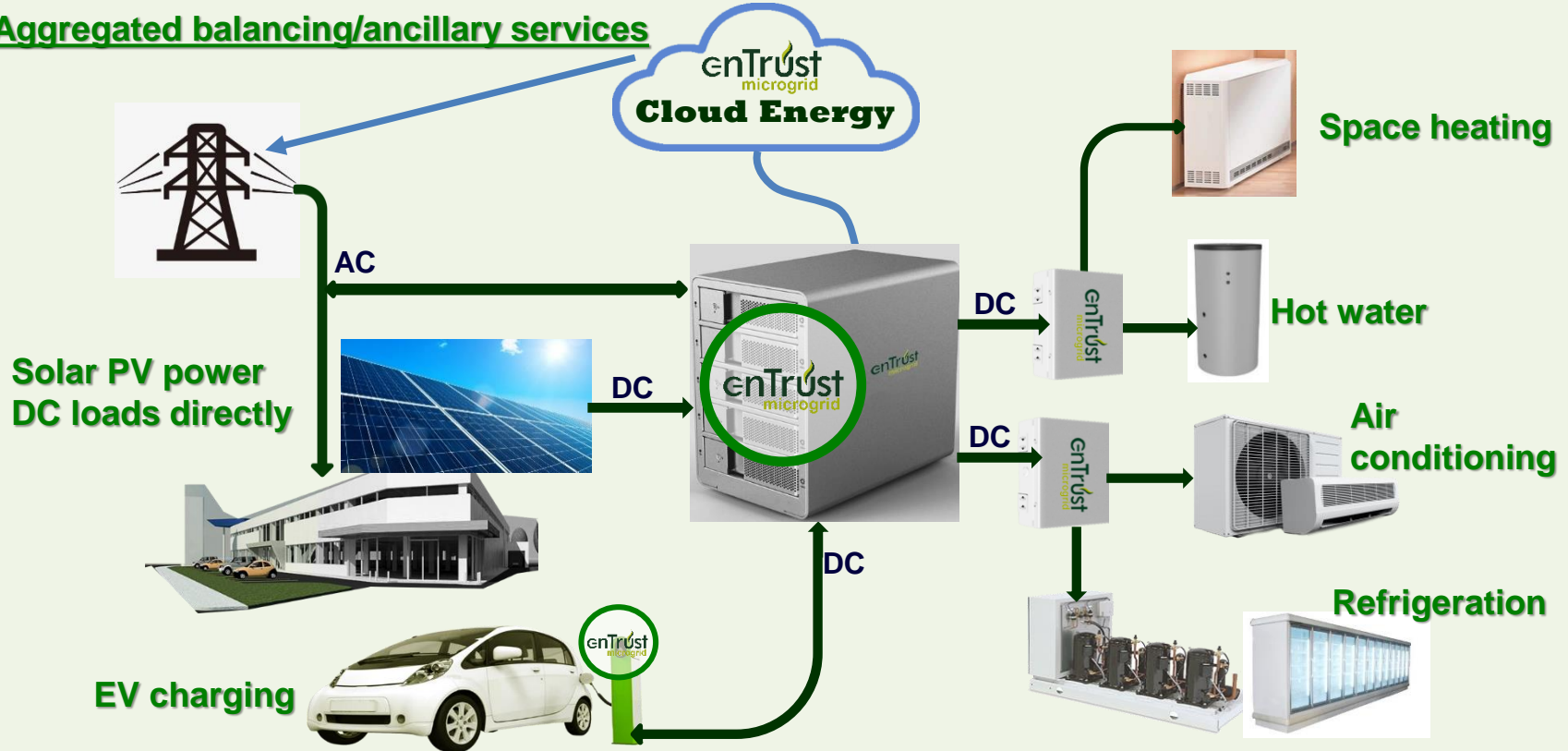
Dr Xiongwei Liu
Entrust Microgrid

Entrust Smart Microgrid Technology



Smart microgrid with hybrid DC/AC Network for built environment with renewables

Aggregated balancing/ancillary services



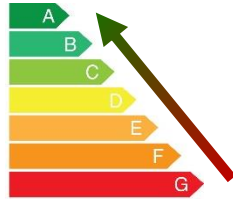


➤ Smart Microgrid Products/Solutions for

- ✓ Domestic Properties
- ✓ Large Buildings/Building Complex
- ✓ Communities

➤ Global Market

- ✓ £30bn+ pa
- ✓ Grows rapidly

The letters 'ROI' in a bold, black, sans-serif font. A black arrow points upwards and to the right, starting from the top left of the 'I' and ending above the 'O'.

Cost

The pound sterling symbol (£) in a large, bold, black font. A black arrow points downwards from the top right of the symbol.

- **RoI: 6~7 years (vs 10+ years competitors)**
- **High energy / power efficiency: increased by 10%+**
- **Low grid connection capacity/cost: reduced by 50%+**
- ✓ **More solar PV installation**

- 98.6% efficient
- Fully UK compliant (G83 engineering recommendation)
- DC to DC solution
- 6 years pay back
- AVAILABLE NOW



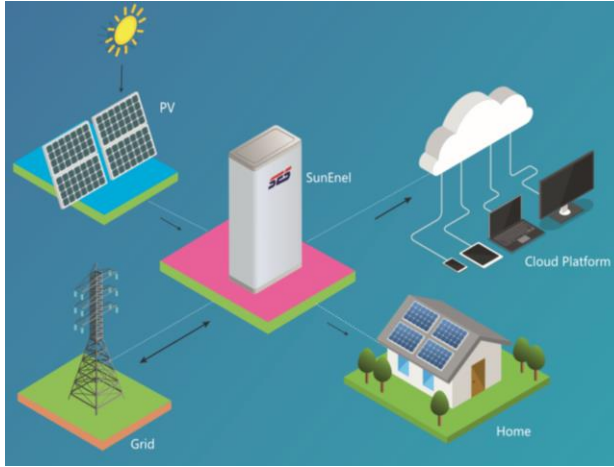
EnsmarthHeat



- 98.6% efficient
- Fully UK compliant (G83 engineering recommendation)
- DC to DC solution
- 6 years pay back
- AVAILABLE NOW



- Direct use of solar PV power for heating purpose
- Allows ~6kW PV panels with ~3.6kW inverter for grid connection
- Smart power flow management
 - ✓ Maximize self-consumption of solar PV power



- **Smart Home Microgrid with PV and Li-Ion Battery Storage**
- **On-grid/island and off-grid**
- **Intelligent Energy Management System**
 - ✓ **Purpose-designed for African market**

Hybrid Power System

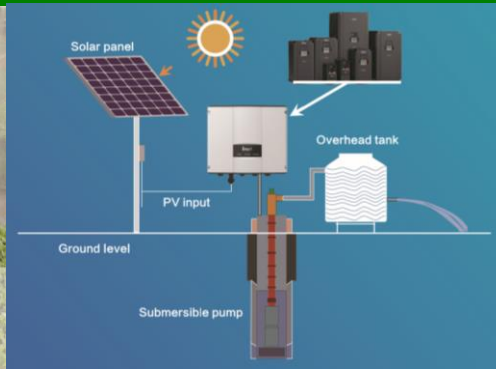


Partner with **MOSO**®

- Hybrid Power System: PV, Battery Storage, Grid and Diesel
- On-grid/island and off-grid
- Intelligent Energy Management System
 - ✓ Purpose-designed for African market

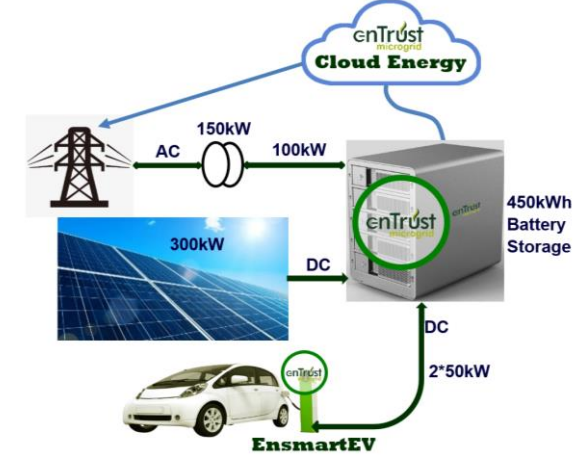
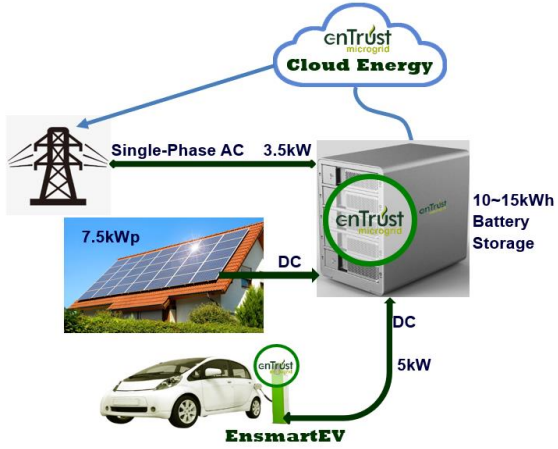


Solar Water Pumping

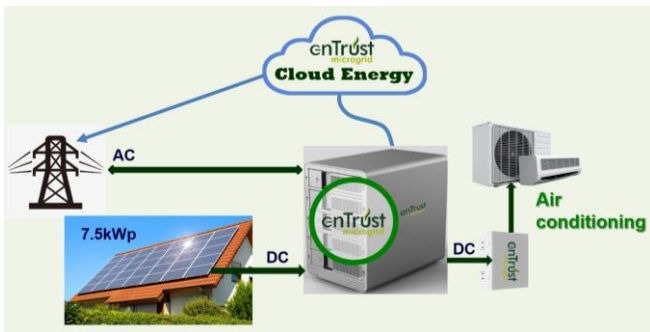


- Irrigation
 - ✓ Agriculture, farmers,
- Water supply: integration with Entrust Smart Microgrid
 - ✓ Domestic and community applications

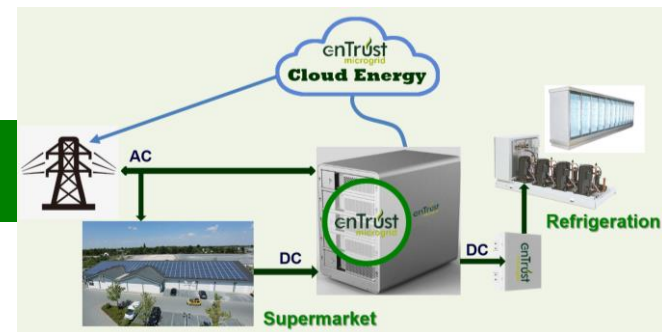
EnsmartEV



- Direct use of solar PV power for EV charging: efficiency 98%+
- Low grid connection capacity / cost: 1/3 vs current solutions
- Flexible EV charging
- V2G through frequency response and Entrust Cloud Energy



EnsmarthP



- Direct use of solar PV power for EV charging: efficiency 98%+
- Low grid connection capacity / cost: 1/3 vs current solutions
- Flexible EV charging
- V2G through frequency response and Entrust Cloud Energy



- Investment for
 - ✓ Manufacture Workshop
 - ✓ Trial/Pilot Projects

- Partnership
 - ✓ Commercial development
 - ✓ R&D in smart technologies



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Thank You

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